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Notice of Allowability	Application No.	Applicant(s)	
	10/039,280	ALDRED, IAN RICHARD	
	Examiner	Art Unit	
	Son M. Tang	2612	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/8/07.
2. ☒ The allowed claim(s) is/are 1,2,5-20 and 22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>20070316</u> . 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kevin Su (Reg. 57377) on 3/16/2007.

The application has been amended as follows:

Claim 1: delete lines 1-7 and replace with -- A detector device for detecting an object in a detecting zone by emitting an electro-magnetic signal using a generated signal into the detecting zone and receiving a first electro-magnetic signal therefrom through a conductor, the detector device comprising at least a field-distorter comprising a semiconductor device disposed adjacent to the conductor, the conductor for carrying the received first electro-magnetic signal; the field-distorter being responsive to an input signal to shift the phase of the received first electromagnetic signal to produce a phase shifted signal in the conductor; and a mixer to mix the phase shifted signal with the generated signal to produce--

Claim 10: line 2, replace "second" with --generated--, and "received" with --transmitted--.

Claim 11: line 2, replace "second" with --generated--.

Claim 18: Delete lines 1-7 and replace with --A motion detection system for detecting an object in a detecting zone by emitting an electro-magnetic signal using a generated signal into the detecting zone and receiving the first electro-magnetic signal therefrom through a conductor, the detector device comprising at least a field-distorter comprising a semiconductor device disposed adjacent to the conductor, the conductor for carrying the received first electro-magnetic signal; the field-distorter being responsive to an input signal to shift the phase of the received first electro-magnetic signal to produce a phase shifted signal in the conductor; and a mixer to mix the phase shifted signal with the generated signal to produce a combined signal having a--

Art Unit: 2612

Claim 19: Delete lines 1-9 and replace with --A method of operating a detector device for detecting an object in a detecting zone by emitting an electro-magnetic signal using a generated signal into the detecting zone and receiving a first electro-magnetic signal therefrom through a conductor, the detector device comprising at least a field-distorter comprising:

disposing a semiconductor device adjacent to the conductor, the conductor for carrying the received first electro-magnetic signal; the field-distorter being responsive to an input signal to shift the phase of the received first electromagnetic signal to produce a phase shifted signal in the conductor;

mixing the phase shifted signal with the generated signal to produce a combined signal having a characteristic determined--.

In claim 19: line 14, replace "circuit element" with --field-distorter--,

line 15 replace "circuit element" with --field-distorter--, after "characteristic of the" before "first" insert --received--,

line 17 after "exerted on the" before "first" insert --received--

Claim 20: line 5, replace "a second" with --the generated--

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son M. Tang whose telephone number is (571)272-2962. The examiner can normally be reached on 5/8.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J. Wu can be reached on (571)272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2612

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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BENJAMIN C. LEE
PRIMARY EXAMINER